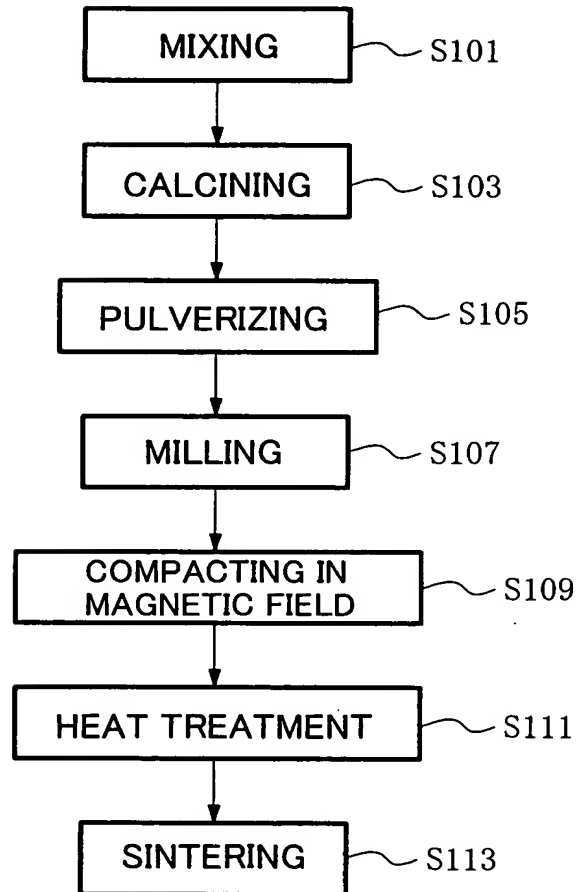


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Figure 1



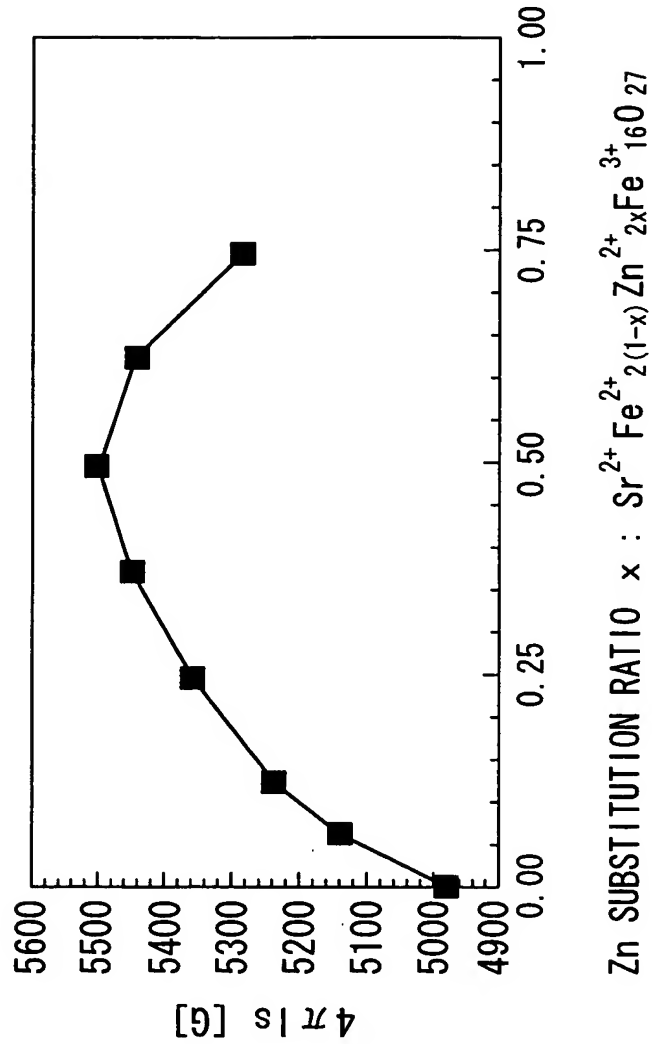
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Figure 2

SAMPLE NO.	ELEMENT M	x	a	b	$4\pi I_s$ (G)	Br (G)	SQUARENESS (%)	DENSITY (%)	MAGNETIC ORIENTATION (%)
1	NONE	0	2.01	16.1	4980	4522	92.79	94.7	95.84
2	Zn	0.062	2.02	16.1	5140	4661	91.89	94.7	95.71
3		0.13	1.99	15.8	5233	4742	90.10	94.8	95.62
4		0.26	1.98	16.2	5353	4837	90.30	94.7	95.36
5		0.37	2.01	16.0	5446	4898	90.09	94.3	95.42
6		0.51	1.98	15.8	5502	4864	91.20	94.0	94.09
7		0.63	2.01	15.9	5440	4782	91.91	93.6	93.94
8		0.74	2.00	16.1	5283	4565	90.01	93.1	92.86

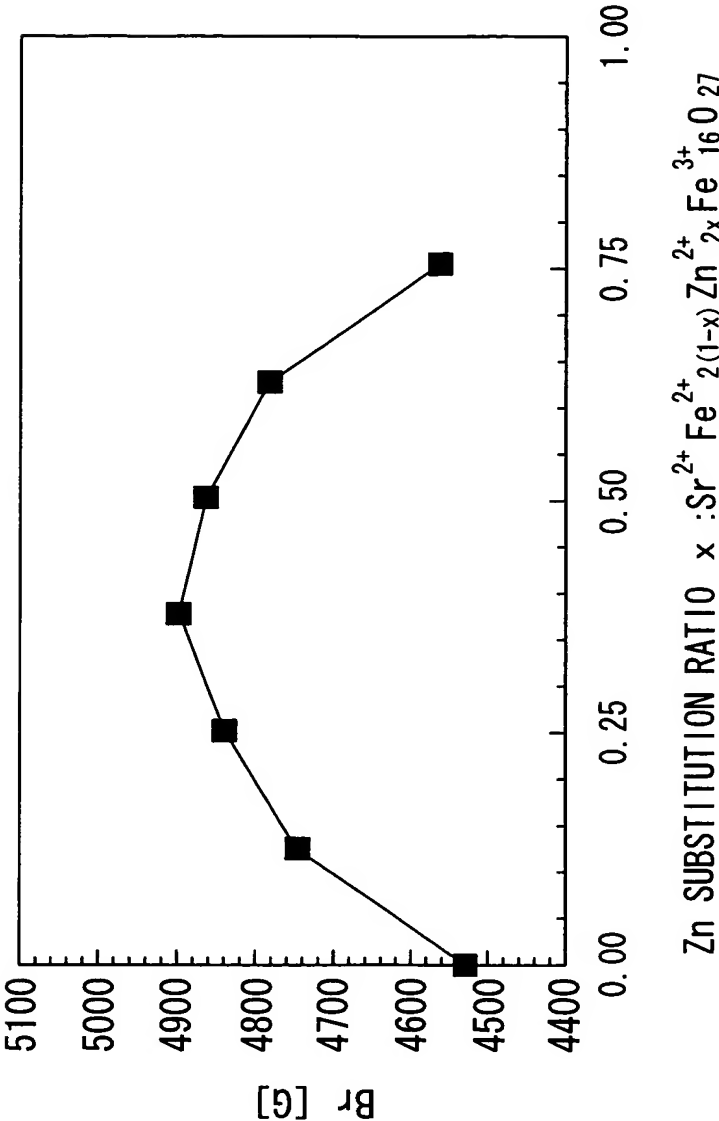
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Figure 3



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Figure 4



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Figure 5A

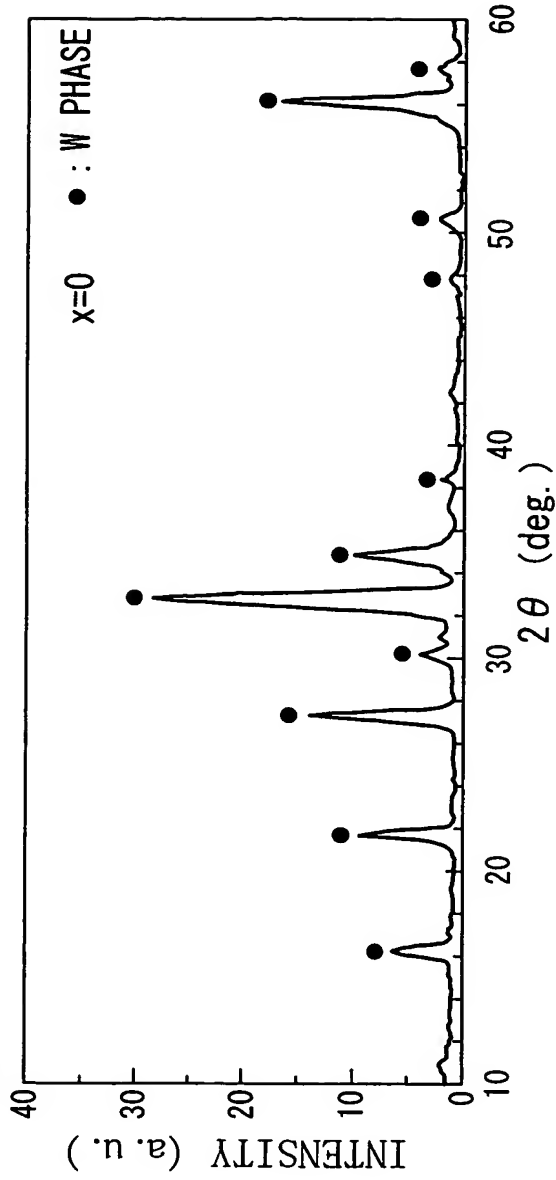
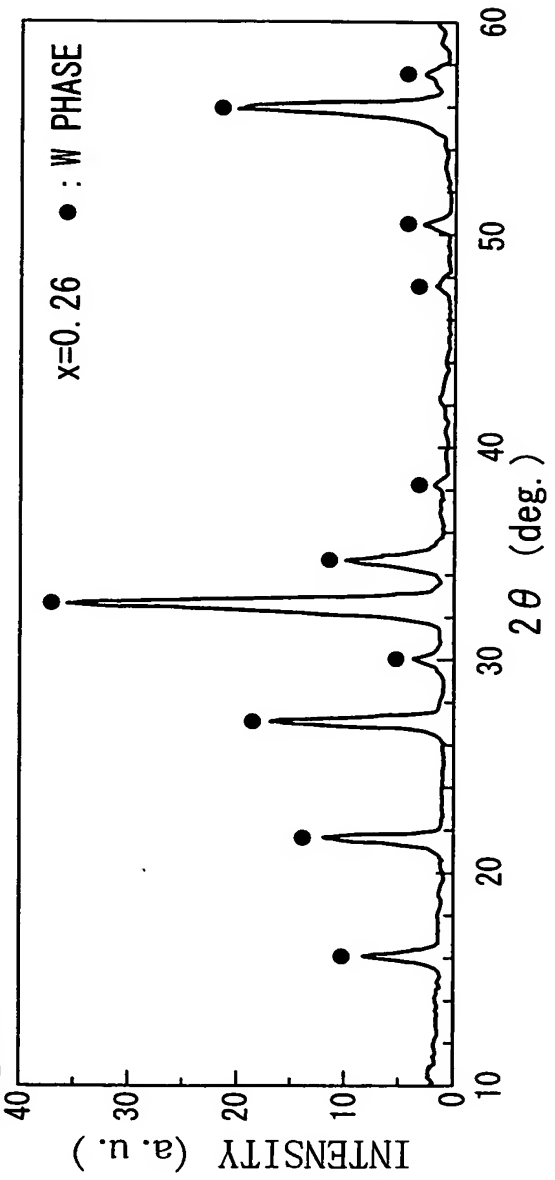


Figure 5B



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Figure 6A

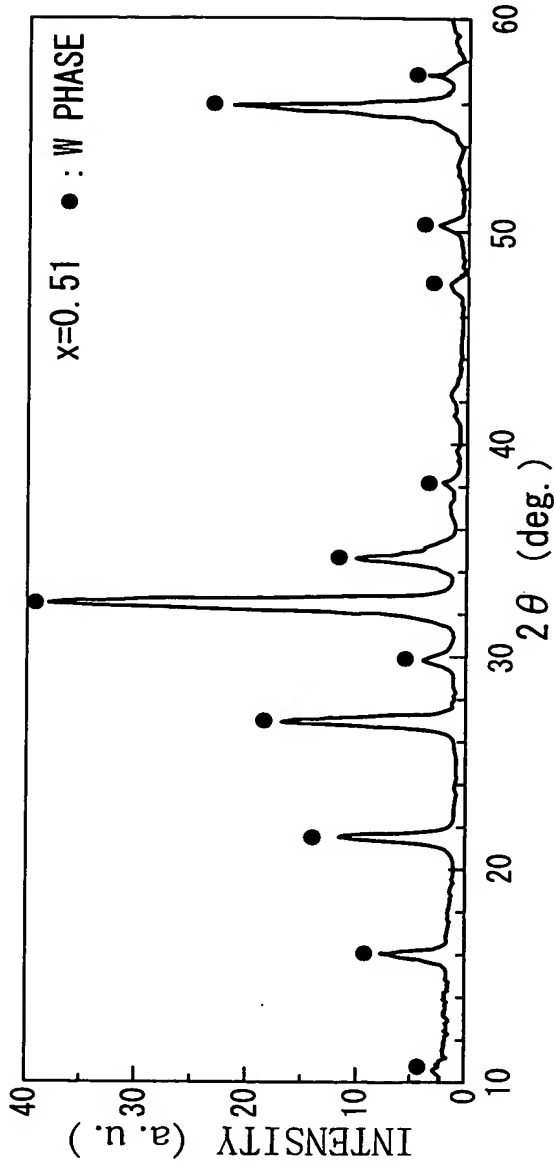
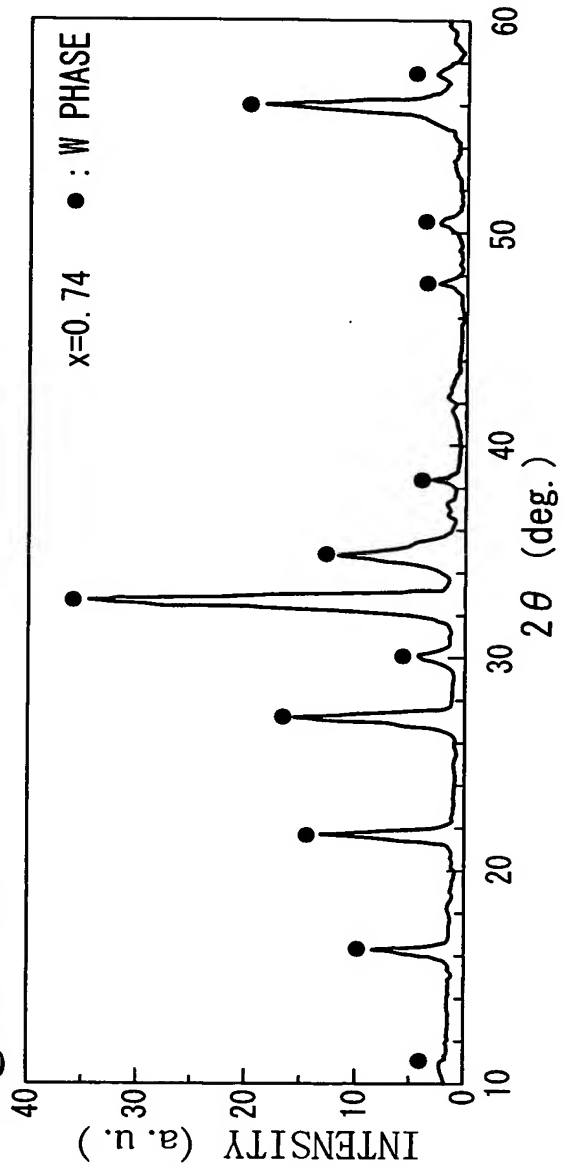


Figure 6B



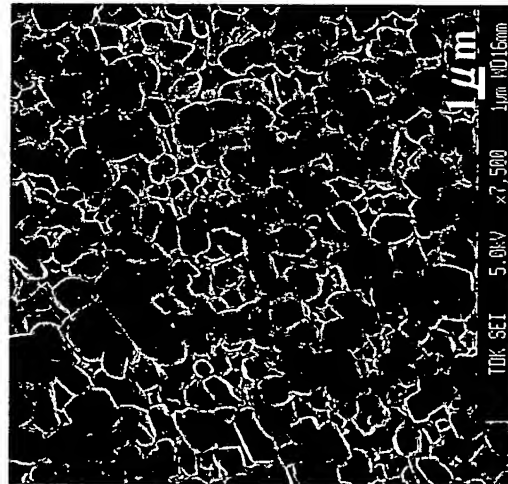
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Figure 7

SAMPLE NO.	x	AMOUNT OF Fe^{3+} (AMOUNT OF $\text{FeO}_{1.5}$)	AMOUNT OF Fe^{2+} (AMOUNT OF FeO)	SrO	ZnO
1	0	16.1	1.89	1	0
4	0.26	16.2	1.47	1	0.51

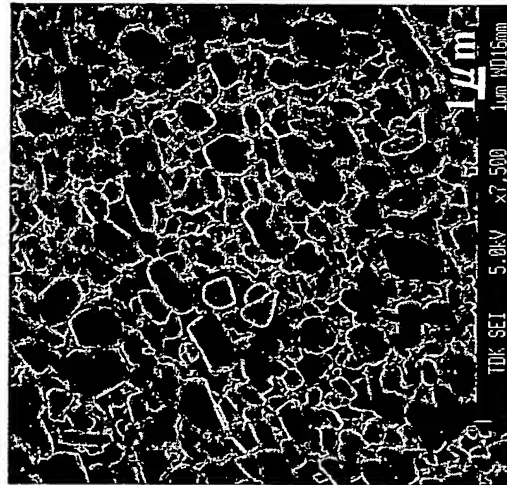
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Figure 8A



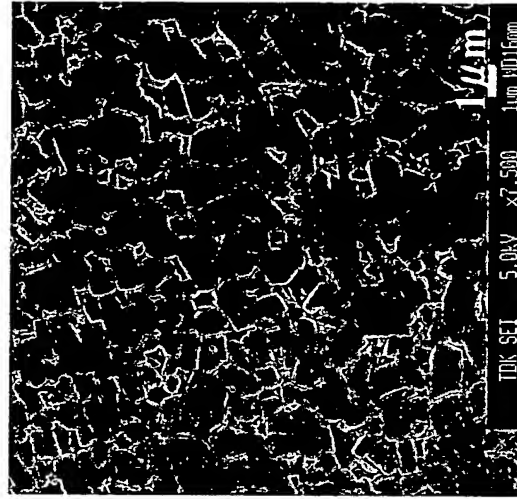
Sample No. 4 (x=0.26)

Figure 8B



Sample No. 6 (x=0.51)

Figure 8C



Sample No. 8 (x=0.74)

Figure 9

SAMPLE NO.	ELEMENT A	ELEMENT M	x	a	b	$4\pi Is$ (G)	Br (G)	SQUARENESS (%)	DENSITY (%)	MAGNETIC ORIENTATION (%)
1	Sr	NONE	0	2.01	16.1	4980	4522	92.79	94.7	95.84
9		Zn	0.375	1.7	13.9	5462	4962	92.18	94.9	95.77
10			0.375	1.8	12.6	5484	5029	90.77	94.8	96.77
11	Sr, Ba		0.375	1.75	13.35	5458	5010	91.45	95.3	96.29

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Figure 10

SAMPLE NO.	ELEMENT M	x	a	b	$4\pi I_s$ (G)	Br (G)	SQUARENESS (%)	DENSITY (%)	MAGNETIC ORIENTATION (%)
1	NONE	0	2.01	16.1	4980	4522	92.79	94.7	95.84
12	Co	0.125	1.98	15.9	5023	4534	90.11	94.9	95.07
13		0.25	1.98	15.8	5032	4504	90.33	94.5	94.68
14		0.5	1.99	15.9	5040	4232	91.03	92.7	90.58
15	Mn	0.125	1.98	15.9	5048	4541	90.65	94.6	95.07
16	Ni	0.125	1.99	15.9	5009	4519	90.34	94.4	95.60